

Andrew B Foster

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Understanding the Topology of the Polymer of Intrinsic Microporosity PIM-1: Cyclics, Tadpoles, and Network Structures and Their Impact on Membrane Performance. <i>Macromolecules</i> , 2020, 53, 569-583.	4.8	59
2	Synergistic enhancement of gas selectivity in thin film composite membranes of PIM-1. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6417-6430.	10.3	55
3	2D boron nitride nanosheets in PIM-1 membranes for CO ₂ /CH ₄ separation. <i>Journal of Membrane Science</i> , 2021, 636, 119527.	8.2	52
4	Gas separation performance of MMMs containing (PIM-1)-functionalized GO derivatives. <i>Journal of Membrane Science</i> , 2021, 623, 118902.	8.2	48
5	Mitigation of Physical Aging with Mixed Matrix Membranes Based on Cross-Linked PIM-1 Fillers and PIM-1. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46756-46766.	8.0	47
6	Conjugated Polymer Nanoparticles by Suzuki-Miyaura Cross-Coupling Reactions in an Emulsion at Room Temperature. <i>Macromolecules</i> , 2014, 47, 6531-6539.	4.8	39
7	Importance of small loops within PIM-1 topology on gas separation selectivity in thin film composite membranes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21807-21823.	10.3	30
8	Using Soft Polymer Template Engineering of Mesoporous TiO ₂ Scaffolds to Increase Perovskite Grain Size and Solar Cell Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18578-18589.	8.0	27
9	Intrinsically Microporous Polymer Nanosheets for High-Performance Gas Separation Membranes. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900572.	3.9	23
10	PIM-1/Holey Graphene Oxide Mixed Matrix Membranes for Gas Separation: Unveiling the Role of Holes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55517-55533.	8.0	22
11	Novel Mixed Matrix Membranes Based on Polymer of Intrinsic Microporosity PIM-1 Modified with Metal-Organic Frameworks for Removal of Heavy Metal Ions and Food Dyes by Nanofiltration. <i>Membranes</i> , 2022, 12, 14.	3.0	19
12	Influence of Polymer Topology on Gas Separation Membrane Performance of the Polymer of Intrinsic Microporosity PIM-Py. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3485-3495.	4.4	11
13	Use of N-methyliminodiacetic acid boronate esters in Suzuki-Miyaura cross-coupling polymerizations of triarylamine and fluorene monomers. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2798-2806.	2.3	6
14	Thin film nanocomposite membranes of PIM-1 and graphene oxide/ZIF-8 nanohybrids for organophilic pervaporation. <i>Separation and Purification Technology</i> , 2022, 299, 121693.	7.9	6
15	Seeking synergy in membranes: blends and mixtures with polymers of intrinsic microporosity. <i>Current Opinion in Chemical Engineering</i> , 2022, 36, 100792.	7.8	5